

5 CLAIMS

What is claimed is:

1 1. An oscillator, comprising:
2 an amplifier having an input and an output;
3 a feedback network connected between the input of the amplifier and the output
4 of the amplifier, the feedback network being configured to provide suitable positive feedback
5 from the output of the amplifier to the input of the amplifier to initiate and sustain an oscillating
6 condition; and
7 a tuning circuit connected to the input of the amplifier, wherein the tuning circuit
8 is continuously variable and consists of solid state electrical components with no mechanically
9 adjustable devices including a pair of diodes connected to each other at their respective
10 cathodes with a control voltage connected at the junction of the diodes.

1 2. An oscillator, comprising:
2 an amplifier having an input and an output;
3 a feedback network connected between the input of the amplifier and the output
4 of the amplifier, the feedback network being configured to provide suitable positive feedback
5 from the output of the amplifier to the input of the amplifier to initiate and sustain an oscillating
6 condition; and
7 transmission lines connected to the input of the amplifier with an input pad and a
8 perpendicular transmission line extending from the input pad and forming a leg of a resonant
9 "T", and wherein the feedback network is coupled to the leg of the resonant "T".